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31. A vehicular wireless voice and data communication system, comprising

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a. a cellular telephone transceiver mounted within a vehicle for accessing a cellular telephone network operating in accordance with a standardized cellular network operating protocol to send and receive voice and data signals over a cellular telephone network, the cellular telephone transceiver including circuitry specifically adapted to cause the cellular telephone transceiver to respond to cellular transceiver control signals formatted in accordance with a standardized cellular network operating protocol specific to the cellular telephone network;

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b. a computing device, including a memory sufficient to allow the computing device to be used in the manner of a portable computer, operable to generate transceiver control signals to control communication over the cellular wireless network from within the vehicle, the control signals being formatted in accordance with a standardized computer data communication protocol that differs from the standardized cellular network operating protocol implemented by the cellular telephone transceiver, and

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c. circuitry for connecting the cellular telephone transceiver and the computing device to allow transceiver control signals, generated by the computing device and formatted in accordance with the standardized computer data communication protocol, to be implemented by the cellular telephone transceiver using the standardized cellular network operating protocol.

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32. A cellular telephone data transmission apparatus, comprising

a. a cellular telephone transceiver for accessing a cellular wireless network for sending and receiving voice and data signals over a cellular telephone network, the cellular telephone transceiver operating in different modes including a call placement mode and a data transceiving mode;

b. a computing device including a memory sufficient to allow the computer device to operate as a portable computer, the computing device operating to send and receive data over the cellular telephone network when the cellular transceiver is operating in the data transceiving mode, and

c. a circuit connected with the cellular telephone transceiver and the computing device for determining when the cellular telephone transceiver is operating in the data transceiving mode and causing the computing device to send and receive data over the cellular telephone network only when the transceiver is operating in the data transceiving mode.

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23. A combined portable computing and cellular voice and data communication device, comprising

a. a cellular telephone transceiver for accessing a cellular telephone network for either voice or data communication, the cellular transceiver operating in accordance with a standardized cellular network operating protocol to send and receive voice and data signals over a cellular telephone network, the cellular telephone transceiver including circuitry specifically adapted to cause the cellular telephone transceiver to respond to cellular transceiver control signals formatted in accordance with the standardized cellular network operating protocol specific to the cellular telephone network;

b. a portable computer operating to generate transceiver control signals to control communication over the cellular telephone network, the control signals being formatted in accordance with a standardized computer data communication protocol that differs from the standardized cellular network operating protocol implemented by the cellular telephone transceiver, the portable computer including computer memory sufficient to allow for portable computer uses other than generating cellular telephone transceiver control signals; and

c. circuitry for connecting the cellular telephone transceiver and the portable computer to allow transceiver control signals, generated by the portable computer and formatted in accordance with the standardized computer data communication protocol, to be implemented by the cellular telephone transceiver using the standardized cellular network operating protocol,

whereby the portable computer, in one mode, may be used to originate control signals to control the operation of the transceiver to control the transceiver to allow user data processed by the portable computer to be sent over the cellular network and to allow user data to be received by the portable computer for subsequent processing by the portable computer and, in another mode, may be used for data processing functions other than control of the cellular telephone transceiver.

34. A system for transferring data between a mobile station and at least one fixed station over a cellular telephone network comprising:

a vehicular mobile radio telephone network access device capable of bidirectionally communicating voice and data between the mobile station and a fixed station;

a computer in said vehicle, the computer providing and receiving data signals;

an interface circuit connected between the computer and the vehicular mobile radio telephone network access device for transmitting data signals to and from the vehicular mobile radio telephone network access device, said interface circuit providing lines for connection to the vehicular mobile radio telephone network access device, said lines including:

a data transmit line for transmitting data signals received from the computer to the vehicular mobile radio telephone network access device;

a data receive line for transmitting data signals from the vehicular mobile radio telephone network access device to the computer; and

plural control lines for providing at least one digital control signal, including a dial control signal, to the vehicular mobile radio telephone network access device to control the operation of the device;

dialing circuit in said interface circuit connected to at least one of the control lines for allowing the computer to cause the vehicular mobile radio telephone network access device to set up a cellular call; and

a program residing in said computer, said program causing said dialing means to set up the cellular call over the radio telephone network.

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35. The cellular telephone data communication system of claim 34, further including a modem operably connected to the computer for modulating data signals received from the computer for transmission over the vehicular mobile radio telephone network access device and for demodulating data signals received from the vehicular mobile radio telephone network access device.

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36. The cellular telephone data communication system of claim 34 wherein said interface circuit inserts error correction bits into said data signal.

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37. The cellular telephone data communication system of claim 34 wherein said data signal is packetized.

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38. The cellular telephone data communication system of claim 37 wherein said packetized data signal comprises packets of variable length, said packet length adjusted according to signal quality.

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51 39. The cellular telephone data communication system of claim ⁴⁶34 wherein said computer, said interface device and said vehicular mobile radio telephone network access device is powered by a vehicle battery.

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40 A cellular computer data transmission system disposed in a vehicle for communicating bidirectional computer data messages to and from a fixed location over a cellular telephone network, the system comprising a radio transceiver for communicating on the cellular network, a computer originating and receiving text messages and an interface for providing a data path between the computer and the radio transceiver, the interface containing a modem for modulating and demodulating data signals for transmission on the cellular telephone network, a controller for controlling access to the cellular telephone network, and parallel signal lines between the controller and the radio transceiver including at least a transmit signal line, a receive signal line, and a control line, whereby text messages are communicated between the computer in the vehicle and a fixed station over the cellular network.

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41 The cellular computer data transmission system of claim ⁵²40 wherein the text messages contain error correcting bits.

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42 The cellular computer data transmission system of claim ⁵²40 wherein the text messages are packetized.

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43 The cellular computer data transmission system of claim ⁵⁴42 wherein the packetized text messages comprise packets of variable length, the length adjusted according to error rate.

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44 A vehicle mobile computer communications system comprising:

a radio transceiver means for communicating over a cellular telephone network;

a computer means running at least one application program providing and receiving text messages;

an interface means disposed between said computer means and said radio transceiver means, said interface means containing a modem and a controller, said controller accessing said radio transceiver means through parallel signal lines including at least a transmit line, a receive line and plurality of control lines;

said interface means transferring text messages from said application program in said computer means to said radio transceiver means for transmission over said cellular telephone network and transferring received text messages from said radio transceiver means to said application in said computer means.

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45. The vehicle mobile computer communications system of claim ⁵⁶44 wherein said controller in said interface means inserts error correction bits into said text messages.

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46. The vehicle mobile computer communications system of claim ⁵⁶44 further comprising dial means contained in said interface means for causing said transceiver means to place a call over said cellular communications network.

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47. The vehicle mobile computer communications system of claim ⁵⁸46 wherein said application program causes said dial means to automatically place a call over said cellular communications network.

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48. A cellular telephone data communication system for communicating data over a cellular telephone system between a fixed station and a mobile station comprising:

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at least one mobile radio transceiver coupled to a data processor, said mobile radio transceiver capable of bidirectionally communicating voice and data between said mobile station and said fixed station, said data processor capable of executing at least one application program;

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said application program causing said mobile radio transceiver to establish communication with said fixed station upon the occurrence of a predetermined event, said application program then sending data to said fixed station.

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49. The cellular telephone data communication system of claim 48 further comprising an interface disposed between said radio transceiver and said data processor, said interface allowing said data processor to control said radio transceiver.

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50. The cellular telephone data communication system of claim 49 wherein said interface inserts error correction bits into said data.

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51. The cellular telephone data communication system of claim 48 wherein said data is packetized.

REMARKS

The courtesies extended to the undersigned during a personal interview conducted on November 5, 2002 are greatly appreciated. During the interview, the status of this application and specifically the handling of previously submitted Preliminary Amendments were discussed. The Examiner informed the undersigned that the Preliminary Amendment filed on April 17, 2001 (and claims 26 through 37 submitted in underlined form as part of the printed specification, also filed on April 17, 2001) were not entered by the PTO in this application. Accordingly, only claims 1-25 were pending in this application prior to July 24, 2002. On that date, a Supplemental